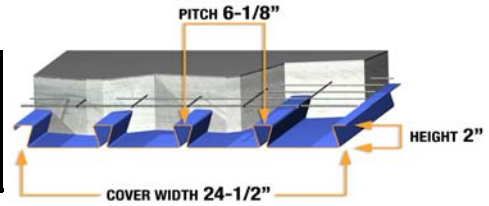


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	949	1093	1214	1861	2006	2138
20	2.69	0.497	0.363	0.337	1351	1549	1716	2641	2842	3023
18	3.56	0.661	0.485	0.462	2251	2564	2827	4385	4701	4986
16	4.48	0.836	0.617	0.598	3431	3887	4271	6670	7128	7542



MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		4 (36.7)				4.25 (39.2)				4.5 (41.7)				4.75 (44.2)			
Span	Load	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	305	319	371	400	329	345	400	400	354	371	400	400	378	397	400	400
	D+L (Deflection)	305	319	371	400	329	345	400	400	354	371	400	400	378	397	400	400
	L (Deflection)	305	319	371	400	329	345	400	400	354	371	400	400	378	397	400	400
9'-0"	D+L (Strength)	268	281	261	356	290	304	272	384	311	326	354	400	333	349	379	400
	D+L (Deflection)	268	281	261	356	290	304	272	384	311	326	354	400	333	349	379	400
	L (Deflection)	268	281	261	356	290	304	272	384	311	326	354	400	333	349	379	400
10'-0"	D+L (Strength)	217	233	258	260	243	262	289	271	270	291	316	280	290	311	338	366
	D+L (Deflection)	217	233	258	260	243	262	289	271	270	291	316	280	290	311	338	366
	L (Deflection)	217	233	258	260	243	262	289	271	270	291	316	280	290	311	338	366
11'-0"	D+L (Strength)	171	184	204	221	192	207	229	248	215	232	256	277	232	257	284	307
	D+L (Deflection)	171	184	204	221	192	207	229	248	215	232	256	277	232	257	284	307
	L (Deflection)	163	176	197	217	192	207	229	248	215	232	256	277	232	257	284	307
12'-0"	D+L (Strength)	136	147	164	178	153	166	184	200	172	186	206	223	187	207	229	248
	D+L (Deflection)	136	147	164	178	153	166	184	200	172	186	206	223	187	207	229	248
	L (Deflection)	126	136	152	168	148	160	179	197	172	186	206	223	187	207	229	248
13'-0"	D+L (Strength)	108	118	132	144	123	133	149	162	138	150	167	182	153	168	187	203
	D+L (Deflection)	108	118	132	144	123	133	149	162	138	150	167	182	153	168	187	203
	L (Deflection)	99	107	120	132	116	126	141	155	136	147	164	180	153	168	187	203
14'-0"	D+L (Strength)	87	95	107	117	99	108	121	132	112	122	136	149	125	136	153	166
	D+L (Deflection)	80	89	103	117	98	108	121	132	112	122	136	149	125	136	153	166
	L (Deflection)	79	85	96	105	93	101	113	124	109	117	131	144	125	136	152	166
15'-0"	D+L (Strength)	69	76	87	95	79	87	99	108	90	99	112	122	102	111	125	137
	D+L (Deflection)	57	65	76	87	72	81	94	107	89	99	112	122	102	111	125	137
	L (Deflection)	57	65	76	86	72	81	92	101	89	95	107	117	102	111	124	136
16'-0"	D+L (Strength)	55	61	70	77	64	70	80	88	73	80	91	100	82	91	103	113
	D+L (Deflection)	40	46	56	65	52	59	70	81	65	73	87	99	80	90	103	113
	L (Deflection)	40	46	56	65	52	59	70	81	65	73	87	97	80	90	102	112
17'-0"	D+L (Strength)	43	48	56	63	45	56	65	72	49	65	74	82	53	74	84	93
	D+L (Deflection)	27	32	40	47	37	42	51	60	47	54	65	75	53	67	79	91
	L (Deflection)	27	32	40	47	37	42	51	60	47	54	65	75	53	67	79	91
18'-0"	D+L (Strength)	32	38	45	50	35	45	52	58	38	52	60	67	42	59	69	77
	D+L (Deflection)	17	21	27	33	24	29	37	44	33	38	47	56	42	49	59	69
	L (Deflection)	17	21	27	33	24	29	37	44	33	38	47	56	42	49	59	69
19'-0"	D+L (Strength)	24	36	35	40	27	40	41	47	29	44	48	54	32	48	56	62
	D+L (Deflection)	8	12	17	22	14	18	25	31	21	26	33	40	29	35	43	51
	L (Deflection)	8	12	17	22	14	18	25	31	21	26	33	40	29	35	43	51
20'-0"	D+L (Strength)	18	29	27	31	20	32	32	37	22	35	38	43	24	38	44	50
	D+L (Deflection)	2	4	9	13	6	10	15	20	12	16	22	28	18	23	30	37
	L (Deflection)	2	4	9	13	6	10	15	20	12	16	22	28	18	23	30	37

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-8"	7'-9"	9'-2"	10'-7"	6'-7"	7'-6"	9'-0"	10'-4"	6'-5"	7'-4"	8'-9"	10'-1"	6'-3"	7'-3"	8'-7"	9'-10"
2span	8'-6"	9'-5"	11'-0"	12'-5"	8'-4"	9'-3"	10'-9"	12'-2"	8'-2"	9'-1"	10'-7"	12'-0"	8'-0"	8'-11"	10'-5"	11'-9"
3span	8'-9"	9'-9"	11'-5"	12'-10"	8'-7"	9'-7"	11'-2"	12'-7"	8'-5"	9'-5"	10'-11"	12'-4"	8'-3"	9'-2"	10'-9"	12'-2"
cantilever	2'-7"	3'-2"	4'-0"	4'-9"	2'-7"	3'-1"	3'-11"	4'-8"	2'-7"	3'-0"	3'-10"	4'-7"	2'-6"	3'-0"	3'-9"	4'-6"
cy/100sf	1.13				1.21				1.29				1.37			

8'-0"	D+L (Strength)	305	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	305	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	305	← Max. superimposed ASD live load (psf) (governed by deflection limitation of L/360)
			Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_D Moment of inertia for deflection per foot of deck width (in⁴/ft)
- Sp Section modulus for positive bending per foot of deck width, (in³/ft)
- Sn Section modulus for negative bending per foot of deck width, (in³/ft)
- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- f'c 3000 psi
- D Uniform dead load, psf
- L Uniform live load, psf

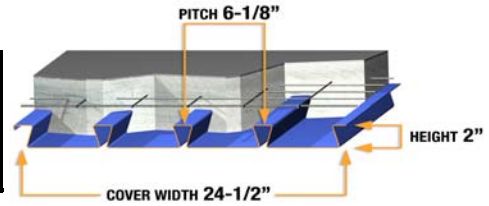
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

120 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	949	1093	1214	1861	2006	2138
20	2.69	0.497	0.363	0.337	1351	1549	1716	2641	2842	3023
18	3.56	0.661	0.485	0.462	2251	2564	2827	4385	4701	4986
16	4.48	0.836	0.617	0.598	3431	3887	4271	6670	7128	7542



MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		5 (46.7)				5.25 (49.2)				5.5 (51.7)				5.75 (54.2)			
Span	Load	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	D+L (Strength)	355	372	400	400	376	395	400	400	398	400	400	400	400	400	400	400
	D+L (Deflection)	355	372	400	400	376	395	400	400	398	400	400	400	400	400	400	400
	L (Deflection)	355	372	400	400	376	395	400	400	398	400	400	400	400	400	400	400
10'-0"	D+L (Strength)	311	332	360	390	331	352	382	400	352	372	400	400	372	393	400	400
	D+L (Deflection)	311	332	360	390	331	352	382	400	352	372	400	400	372	393	400	400
	L (Deflection)	311	332	360	390	331	352	382	400	352	372	400	400	372	393	400	400
11'-0"	D+L (Strength)	248	285	314	339	265	313	345	373	281	335	365	396	298	354	385	400
	D+L (Deflection)	248	285	314	339	265	313	345	373	281	335	365	396	298	354	385	400
	L (Deflection)	248	285	314	339	265	313	345	373	281	335	365	396	298	354	385	400
12'-0"	D+L (Strength)	201	229	254	275	214	253	280	303	228	277	307	332	241	297	335	363
	D+L (Deflection)	201	229	254	275	214	253	280	303	228	277	307	332	241	297	335	363
	L (Deflection)	201	229	254	275	214	253	280	303	228	277	307	332	241	297	335	363
13'-0"	D+L (Strength)	164	186	207	225	175	206	229	248	186	226	251	273	197	245	275	298
	D+L (Deflection)	164	186	207	225	175	206	229	248	186	226	251	273	197	245	275	298
	L (Deflection)	164	186	207	225	175	206	229	248	186	226	251	273	197	245	275	298
14'-0"	D+L (Strength)	135	152	170	185	144	168	188	205	153	186	207	225	162	203	227	247
	D+L (Deflection)	135	152	170	185	144	168	188	205	153	186	207	225	162	203	227	247
	L (Deflection)	135	152	170	185	144	168	188	205	153	186	207	225	162	203	227	247
15'-0"	D+L (Strength)	111	124	140	153	119	138	155	170	126	153	172	187	109	168	189	206
	D+L (Deflection)	111	124	140	153	119	138	155	170	126	153	172	187	109	168	189	206
	L (Deflection)	111	124	140	153	119	138	155	170	126	153	172	187	109	168	189	206
16'-0"	D+L (Strength)	72	102	115	127	77	114	129	141	83	126	142	156	88	139	157	172
	D+L (Deflection)	72	102	115	127	77	114	129	141	83	126	142	156	88	139	157	172
	L (Deflection)	72	102	115	127	77	114	129	141	83	126	142	156	88	139	157	172
17'-0"	D+L (Strength)	58	83	95	105	62	93	106	117	66	91	118	130	71	97	131	144
	D+L (Deflection)	58	83	95	105	62	93	106	117	66	91	118	130	71	97	131	144
	L (Deflection)	58	83	95	105	62	93	106	117	66	91	118	130	71	97	131	144
18'-0"	D+L (Strength)	45	64	78	87	49	69	88	97	52	74	98	109	56	79	109	120
	D+L (Deflection)	45	64	78	87	49	69	88	97	52	74	98	109	56	79	109	120
	L (Deflection)	45	64	78	87	49	69	88	97	52	74	98	109	56	79	109	120
19'-0"	D+L (Strength)	35	52	64	71	38	56	72	80	41	60	81	90	43	64	90	101
	D+L (Deflection)	35	52	64	71	38	56	72	80	41	60	81	90	43	64	90	101
	L (Deflection)	35	52	64	71	38	56	72	80	41	60	81	90	43	64	90	101
20'-0"	D+L (Strength)	26	42	51	58	28	45	59	66	31	48	79	75	33	52	85	84
	D+L (Deflection)	26	42	51	58	28	45	59	66	31	48	79	75	33	52	85	84
	L (Deflection)	26	42	51	58	28	45	59	66	31	48	79	75	33	52	85	84

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-2"	7'-1"	8'-5"	9'-7"	6'-0"	6'-11"	8'-3"	9'-5"	5'-11"	6'-10"	8'-1"	9'-3"	5'-10"	6'-8"	7'-11"	9'-1"
2span	7'-10"	8'-9"	10'-2"	11'-6"	7'-8"	8'-7"	10'-0"	11'-4"	7'-7"	8'-5"	9'-10"	11'-2"	7'-5"	8'-4"	9'-8"	11'-0"
3span	8'-1"	9'-0"	10'-6"	11'-11"	7'-11"	8'-10"	10'-4"	11'-9"	7'-10"	8'-9"	10'-2"	11'-6"	7'-8"	8'-7"	10'-0"	11'-4"
cantilever	2'-6"	3'-0"	3'-9"	4'-6"	2'-6"	2'-11"	3'-8"	4'-5"	2'-5"	2'-11"	3'-8"	4'-4"	2'-5"	2'-10"	3'-7"	4'-3"
cy/100sf	1.44				1.52				1.60				1.67			

8'-0"	D+L (Strength)	400	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed ASD live load (psf) (governed by deflection limitation of L/360)
			Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_b Moment of inertia for deflection per foot of deck width (in⁴/ft)
- Sp Section modulus for positive bending per foot of deck width, (in³/ft)
- Sn Section modulus for negative bending per foot of deck width, (in³/ft)
- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- f'c 3000 psi
- D Uniform dead load, psf
- L Uniform live load, psf

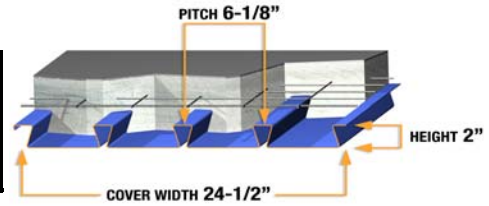
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

120 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	949	1093	1214	1861	2006	2138
20	2.69	0.497	0.363	0.337	1351	1549	1716	2641	2842	3023
18	3.56	0.661	0.485	0.462	2251	2564	2827	4385	4701	4986
16	4.48	0.836	0.617	0.598	3431	3887	4271	6670	7128	7542



MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		6 (56.7)				6.25 (59.2)				6.5 (61.7)				6.75 (64.2)			
Span	Load	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
9'-0"	D+L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
10'-0"	D+L (Strength)	393	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	D+L (Deflection)	393	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	L (Deflection)	393	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
11'-0"	D+L (Strength)	314	372	400	400	331	390	400	400	348	400	400	400	364	400	400	
	D+L (Deflection)	314	372	400	400	331	390	400	400	348	400	400	400	364	400	400	
	L (Deflection)	314	372	400	400	331	390	400	400	348	400	400	400	364	400	400	
12'-0"	D+L (Strength)	255	314	365	395	268	331	386	400	282	348	400	400	295	365	400	
	D+L (Deflection)	255	314	365	395	268	331	386	400	282	348	400	400	295	365	400	
	L (Deflection)	255	314	365	395	268	331	386	400	282	348	400	400	295	365	400	
13'-0"	D+L (Strength)	208	259	300	325	220	273	325	353	231	287	352	381	242	301	379	
	D+L (Deflection)	208	259	300	325	220	273	325	353	231	287	352	381	242	301	379	
	L (Deflection)	208	259	300	325	220	273	325	353	231	287	352	381	242	301	379	
14'-0"	D+L (Strength)	172	215	248	270	181	227	270	293	190	238	292	317	199	250	315	
	D+L (Deflection)	172	215	248	270	181	227	270	293	190	238	292	317	199	250	315	
	L (Deflection)	172	215	248	270	181	227	270	293	190	238	292	317	199	250	315	
15'-0"	D+L (Strength)	116	180	206	225	123	189	225	245	129	199	244	266	136	209	264	
	D+L (Deflection)	116	180	206	225	123	189	225	245	129	199	244	266	136	209	264	
	L (Deflection)	116	180	206	225	123	189	225	245	129	199	244	266	136	209	264	
16'-0"	D+L (Strength)	94	151	172	188	99	159	188	206	104	140	204	224	110	147	221	
	D+L (Deflection)	94	151	172	188	99	159	188	206	104	140	204	224	110	147	221	
	L (Deflection)	94	151	172	188	99	159	188	206	104	140	204	224	110	147	221	
17'-0"	D+L (Strength)	75	103	144	158	79	109	158	173	84	115	172	189	88	121	186	
	D+L (Deflection)	75	103	144	158	79	109	158	173	84	115	172	189	88	121	186	
	L (Deflection)	75	103	144	158	79	109	158	173	84	115	172	189	88	121	186	
18'-0"	D+L (Strength)	59	84	120	133	63	89	132	146	66	94	144	159	70	99	157	
	D+L (Deflection)	59	84	120	133	63	89	132	146	66	94	144	159	70	99	157	
	L (Deflection)	59	84	120	133	63	89	132	146	66	94	144	159	70	99	157	
19'-0"	D+L (Strength)	46	68	100	111	49	73	114	123	52	77	120	134	54	81	127	
	D+L (Deflection)	46	68	100	111	49	73	114	123	52	77	120	134	54	81	127	
	L (Deflection)	46	68	100	111	49	73	114	123	52	77	120	134	54	81	127	
20'-0"	D+L (Strength)	35	55	90	93	37	58	96	103	39	62	101	113	41	65	107	
	D+L (Deflection)	35	55	90	93	37	58	96	103	39	62	101	113	41	65	107	
	L (Deflection)	35	55	90	93	37	58	96	103	39	62	101	113	41	65	107	

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-9"	6'-7"	7'-9"	8'-11"	5'-8"	6'-5"	7'-8"	8'-9"	5'-7"	6'-4"	7'-7"	8'-8"	5'-6"	6'-4"	7'-6"	8'-7"
2span	7'-4"	8'-2"	9'-6"	10'-9"	7'-2"	8'-0"	9'-5"	10'-8"	7'-1"	7'-11"	9'-3"	10'-6"	7'-0"	7'-10"	9'-1"	10'-4"
3span	7'-7"	8'-5"	9'-10"	11'-2"	7'-5"	8'-4"	9'-8"	11'-0"	7'-4"	8'-2"	9'-7"	10'-10"	7'-3"	8'-1"	9'-5"	10'-8"
cantilever	2'-5"	2'-10"	3'-6"	4'-3"	2'-4"	2'-9"	3'-6"	4'-2"	2'-4"	2'-9"	3'-5"	4'-1"	2'-4"	2'-9"	3'-5"	4'-1"
cy/100sf	1.75				1.83				1.91				1.98			

8'-0"	D+L (Strength)	400	←	Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	←	Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	←	Max. superimposed ASD live load (psf) (governed by deflection limitation of L/360)
			↑	Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_D Moment of inertia for deflection per foot of deck width (in⁴/ft)
- Sp Section modulus for positive bending per foot of deck width, (in³/ft)
- Sn Section modulus for negative bending per foot of deck width, (in³/ft)
- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- F_c 3000 psi
- D Uniform dead load, psf
- L Uniform live load, psf

If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

120 PCF LIGHTWEIGHT CONCRETE TABLE